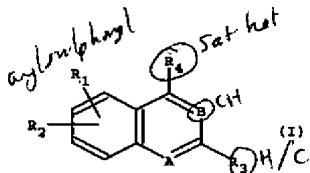


96-094177/10 B02 (B05) CHUS 94.06.21
 CHUGAI PHARM CO LTD *JP 08003144-A
 94.06.21 94JP-173067 (96.07.09) C07D 239/72, C07C 43/235, 43/257,
 49/84, 205/06, 211/57, 211/58, 211/59, C07D 403/04, 401/04, C07C 211/60,
 255/49, 317/16, 317/26, 317/44, C07D 215/50 // A61K 31/47, 31/505
 Novel quinazoline and quinoline derivs. - are potassium channel
 openers with vasodilatory activity
 C96-030111

Quinazoline and quinoline derivs. of formula (I) and their salts are new.



B(6-D2, 6-D6, 14-F2D) .3

A, B = N or CH

R₁, R₂ = H, lower alkyl, lower haloalkyl, lower alkoxy, lower haloalkoxy, halogen, cyano, nitro, lower alkylsulphonyl, lower haloalkylsulphonyl, arylsulphonyl, acyl, carboxyl, ester or amide;

R₃ = H, opt. subst. lower alkyl, or opt. subst. aryl;

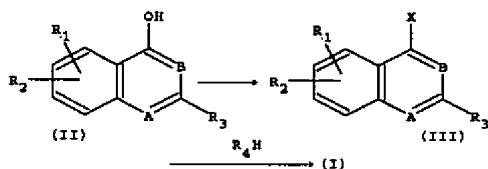
R₄ = opt. ~~said heterocyclic gp.~~ carboamide, carbothioamide, cyanamide, opt. subst. amino, lower alkoxy, cycloalkyloxy, aryloxy or heteroalkyloxy.

ADVANTAGE

(I) have high vasodilatory activity as potassium channel openers.

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PREPARATION



X = halogen.

EXAMPLE

Na hydride (33 mg), 4-chloro-2-ethyl-6-nitroquinazoline (170 mg) and DMF (3 ml) were added to 2-hydroxypyridine (82 mg) and DMF (3 ml). The mixt. was stirred at room temp. for 14.5 hrs. Water was added and the mixt. extracted with ethyl acetate.

Work-up including silica gel chromatography gave 40 mg 2-ethyl-4-(1,2-dihydro-2-oxopyridyl)-6-nitroquinazoline, m.pt. 221-223°C.
 (LD)
 (13pp097DwgNo.0/0)

JP 08003144-A